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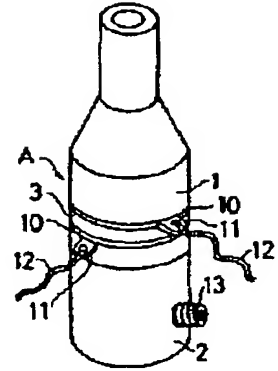
APPLICATION DATE : 03-08-90
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APPLICANT : CANON INC;

INVENTOR : MUKOJIMA HITOSHI;

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TITLE : SUPERSONIC MOTOR



ABSTRACT : PURPOSE: To decrease the difference between the two flexural peculiar frequencies formed in a vibrator by providing a nonaxisymmetry means capable of mass adjustment at one part of a vibrator.

CONSTITUTION: A screw hole is provided in the rear vibrating elastic body 2 of a pencil type vibrator A, and a screw 13 is provided to be screwed in it in, for example, diametrical direction. For the mounting position of the screw 13, it is provided, for example, in parallel with the center, which divides the element part of the piezoelectric element plate 3 in two, and has the slippage of 90° with the center, which divides the element part of the one sheet out of the piezoelectric element plate 4. That is, by the screw 13 being added to the vibrator A, the axisymmetry of the vibrator collapses, and the two peculiar vibration frequencies 90° different in phase are relieved of degeneracy, and are separated. Hereby, the peculiar frequency can be adjusted by mass adjustment, and the difference between the peculiar frequencies can be made very small.

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